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10 30 50  
GCTCACCAAAATGGTCGTCGACAAGAATGCCTCCGGGCTTCGAATGAAGGTCGATGGCAA  
M V V D K N A S G L R M K V D G K

70 90 110  
ATGGCTCTACCTTAGCGAGGAATTGGTGAAGAAACATCCAGGAGGAGCTGTTATTGAACA  
W L Y L S E E L V K K H P G G A V I E Q

130 150 170  
ATATAGAAATTCGGATGCTACTCATATTTTCCACGCTTCCACGAAGGATCTTCTCAGGC  
Y R N S D A T H I F H A F H E G S S Q A

190 210 230  
TTATAAGCAACTTGACCTTCTGAAAAAGCACGGAGAGCACGATGAATTCCTTGAGAAACA  
Y K Q L D L L K K H G E H D E F L E K Q

250 270 290  
ATTGGAAGAGAGACTTGACAAAGTTGATATCAATGTATCAGCATATGATGTCAGTGTTC  
L E K R L D K V D I N V S A Y D V S V A

310 330 350  
ACAAGAAAAGAAAATGGTTGAATCATTGAAAACTACGACAGAAGCTTCATGATGATGG  
Q E K K M V E S F E K L R Q K L H D D G

370 390 410  
ATTAATGAAAGCAAATGAAACATATTTCTGTTTAAAGCGATTTC AACACTTTCAATTAT  
L M K A N E T Y F L F K A I S T L S I M

430 450 470  
GGCATTTCGATTTTATCTTCAGTATCTTGGATGGTATATTACTTCTGCATGTTTATTAGC  
A F A F Y L Q Y L G W Y I T S A C L L A

490 510 530  
ACTTGCATGGCAACAATTCGGATGGTTAACACATGAGTTCTGCCATCAACAGCCAAACAAA  
L A W Q Q F G W L T H E F C H Q Q P T K

FIG. 1

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550 570 590  
GAACAGACCTTTGAATGATACTATTTCTTTGTTCTTTGGTAATTTCTTACAAGGATTTTC  
N R P L N D T I S L F F G N F L Q G F S

610 630 650  
AAGAGATTGGTGGGAAGGACAAGCATAACACTCATCACGCTGCCACAAATGTAATTGATCA  
R D W W K D K H N T H H A A T N V I D H

670 690 710  
TGACGGTGATATCGACTTGGCACCACCTTTTCGCATTTATTCCAGGAGATTTGTGCAAGTA  
D G D I D L A P L F A F I P G D L C K Y

730 750 770  
TAAGGCCAGCTTTGAAAAAGCAATTCTCAAGATTGTACCATATCAACATCTCTATTTTCAC  
K A S F E K A I L K I V P Y Q H L Y F T

790 810 830  
CGCAATGCTTCCAATGCTCCGTTTCTCATGGACTGGTCAGTCAGTTCAATGGGTATTCAA  
A M L P M L R F S W T G Q S V Q W V F K

850 870 890  
AGaGAATCAAATGGAGTACAAGGTCTATCAAAGAAATGCATTCTGGGAGCAAGCAACAAT  
E N Q M E Y K V Y Q R N A F W E Q A T I

910 930 950  
TGTTGGACATTGGGCTTGGGTATTCTATCAATTGTTCTTATTACCAACATGGCCACTTCG  
V G H W A W V F Y Q L F L L P T W P L R

970 990 1010  
GGTTGCTTATTTTATTATTTTCAAAATGGGAGGAGGCCTTTTGATTGCTCACGTAGTCAC  
V A Y F I I S Q M G G G L L I A H V V T

FIG. 1 CONT'D

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1030 1050 1070  
TTTCAACCATAACTCTGTTGATAAGTATCCAGCCAATTCTCGAATTTTAAACAACTTCGC  
F N H N S V D K Y P A N S R I L N N F A

1090 1110 1130  
CGCTCTTCAAATTTTGACCACACGCAACATGACTCCATCTCCATTCAATTGATTGGCTTTG  
A L Q I L T T R N M T P S P F I D W L W

1150 1170 1190  
GGGTGGACTCAATTATCAGATCGAGCACCCTTGTTCCTCAACAATGCCACGTTGCAATCT  
G G L N Y Q I E H H L F P T M P R C N L

1210 1230 1250  
GAATGCTTGCGTGAAATATGTGAAAGAATGGTGCAAAGAGAATAATCTTCCTTACCTCGT  
N A C V K Y V K E W C K E N N L P Y L V

1270 1290 1310  
CGATGACTACTTTGACGGATATGCAATGAATTTGCAACAATTGAAAAATATGGCTGAGCA  
D D Y F D G Y A M N L Q Q L K N M A E H

1330 1350 1370  
CATTCAAGCTAAAGCTGCCTAAACAATCTGGGTGTTCAAAAAGTTTTTCTTGTTTTTTT  
I Q A K A A \*

1390 1410 1430  
AAATTTAATTCTTTGAAATTATTTGTTTTCCGTCATTCTTCCTCCATTCCCTTTTCTGGT

1450  
AGAAATAAAACCTTGTTTTTCAA

FIG. 1 CONT'D

## FIG. 2A

PRETTYBOX of: des.msfc(\*) November 4, 1997 18:33:04.76

Mywormd6 Cew08d2	MVVVDKKNASGL MVVDKKNASGL	RMKVVDGKWLY RMKVVDGKWLY	LSEELVKKKHP LSEELVKKKHP	GGAVIEQ GGAVIEQYSI	PPLNKNIE PPLNKNIE	GIITTRGSSN GIITTRGSSN	37 60
Mywormd6 Cew08d2	SDATHIFHAF SDATHIFHAF	HEGSSQAYKQ HEGSSQAYKQ	LDDLKKKHGEH LDDLKKKHGEH	DEFLEKQLEK DEFLEKQLEK	RLDKVDINVS RLDKVDINVS		90 120
Mywormd6 Cew08d2	AYDVSVQAQEK AYDVSVQAQEK	QKLHDDGGLMK QKLHDDGGLMK	ANETYFLFKA ANETYFLFKA	ISTLSIMAF ISTLSIMAF	FYLOYLGMVI FYLOYLGMVI		150 180
Mywormd6 Cew08d2	TSACLLALAW TSACLLALAW	QOFGWLTHEF QOFGWLTHEF	LNDTISLFFG LNDTISLFFG	NFLQGFSDW NFLQGFSDW	WKDKHNTTHA WKDKHNTTHA		210 240
Mywormd6 Cew08d2	ATNVIDHDGD ATNVIDHDGD	IDLAPLFAFI IDLAPLFAFI	PGDLCKYKAS PGDLCKYKAS	FEKAILKIVP FEKAILKIVP	PMLRFSWTGQ PMLRFSWTGQ		270 300
Mywormd6 Cew08d2	SVQWVFKENQ SVQWVFKENQ	MEYKVYQRNA MEYKVYQRNA	FWEQATIVGH FWEQATIVGH	WAWVFYQLFL WAWVFYQLFL	FISQMGGGL FISQMGGGL		330 360
Mywormd6 Cew08d2	LIAHVVTFNH LIAHVVTFNH	NSVDKYPANS NSVDKYPANS	RILNNFAALO RILNNFAALO	ILTTRNMTPS ILTTRNMTPS	NYQIEHHLFP NYQIEHHLFP		390 420
Mywormd6 Cew08d2	TMPRCNLNAC TMPRCNLNAC	VKYVKEWCKE MKYVKEWCKE	NNLPYLVDDY NNLPYLVDDY	FDGYAMNLQO FDGYAMNLQO	LKNMAEHIOA LKNMAEHIOA	KAA*443 KAA*473	

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**b<sub>5</sub>**

boofd6 ceeld6	MAAQIKKYIT ...	SDELKKNHDKP ...MVDKNA	GD <del>L</del> WISIQ <del>GK</del> SGLRMKV <del>DGK</del>	AYDVS <del>.</del> DMVK WLYLSEELVK	DHPGGSFPLK KHPGGAV <del>.</del> IE	SLAQGEV <del>TDA</del> QYRNSD <del>THI</del>	59 46
boofd6 ceeld6	FVAFHPAS <del>.</del> FHAFHEGSISQ	TWKNLDKF <del>.</del> AYKQ <del>LD</del> LLKK	...FTGY <del>Y</del> LK HGEHDEFLEK	DY <del>.</del> ...DKVD QLEKRL <del>D</del> KVD	SVSEVS <del>.</del> INVSA <del>YD</del> VSV	KDYR <del>KL</del> VFEF <del>.</del> AQEK <del>KM</del> VESEF	100 106
boofd6 ceeld6	SKMGLYDKKG EKL <del>RQ</del> KLHDD	HIMFA <del>.</del> TLC GLMKANET <del>YF</del>	FIAMLFAMSV LFKAISTLSI	YGVLFCEGV <del>L</del> MAFAFY <del>LQ</del> YL	VHLF <del>.</del> SGCLM GWYITSACLL	GFLWI <del>QSGMI</del> ALAW <del>QO</del> FGWL	157 166
boofd6 ceeld6	GHDA <del>GHY</del> MVV TH <del>E</del> FCH <del>Q</del> QPT	SDSR <del>LN</del> KFMG KNR <del>P</del> LN <del>D</del> TIS	IFAA <del>N</del> CLSGI LFFGN <del>F</del> LQGF	SIGW <del>WK</del> NNHN SRD <del>W</del> WKDKHN	AHHIA <del>CN</del> SLE THHAA <del>TN</del> VID	YDP <del>D</del> LQYI <del>PF</del> H <del>DG</del> DID <del>LAP</del>	217 225
boofd6 ceeld6	LVVSSKFFGS ...LFAF	LTSHFYEKRL IPGD <del>L</del> CKYKA	TFDSLSRFFV SFEKAILKIV	SYQHWT <del>F</del> YPI PYOHLY <del>F</del> TAM	MCAAR <del>LN</del> MYV LPMLR <del>F</del> SWTG	QSLIM <del>LL</del> TKR OSVQ <del>W</del> VFKEN	277 279
boofd6 c eld6	NVSYRAHE <del>.</del> QMEYKVYQRN	...LLG AFWEQATIVG	CLVFSIWYPL HWA <del>W</del> .V <del>F</del> YQL	LVSC <del>LP</del> NWGE FL <del>.</del> LPT <del>W</del> PL	RIMFVIA <del>S</del> LS RVAYFIISQM	VTG <del>MQ</del> QVQ <del>.</del> F GGGL <del>LI</del> AHV	327 336
boofd6 ceeld6	SLNHFS <del>SS</del> VY TFNHN <del>S</del> V <del>D</del> KY	VGKPKG <del>.</del> NNW PANSRILNNE	FEKQTDGTLD AALQ <del>IL</del> TT <del>TRN</del>	ISCP <del>PP</del> WM <del>D</del> WF MTPSP <del>F</del> ID <del>WL</del>	HGGLQ <del>FQ</del> IEH WGGLN <del>Y</del> OIEH	HLP <del>PK</del> M <del>PR</del> CN HLP <del>PT</del> M <del>PR</del> CN	386 396
boofd6 ceeld6	L <del>R</del> KISP <del>YV</del> IE LNACV <del>KY</del> VKE	LCKKH <del>N</del> LPYN WCKENN <del>L</del> PYL	YASFSKANEM VDDYFDGYAM	T <del>L</del> RT <del>LR</del> N <del>TA</del> NLQ <del>Q</del> L <del>K</del> NMAE	LQARDIT <del>KP</del> HIOAKAA <del>.</del>	LPKN <del>L</del> VWEAL .....	444 443
boofd6 ce ld6	HTHG*448 ...443						

FIG. 2B

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FIG. 3A

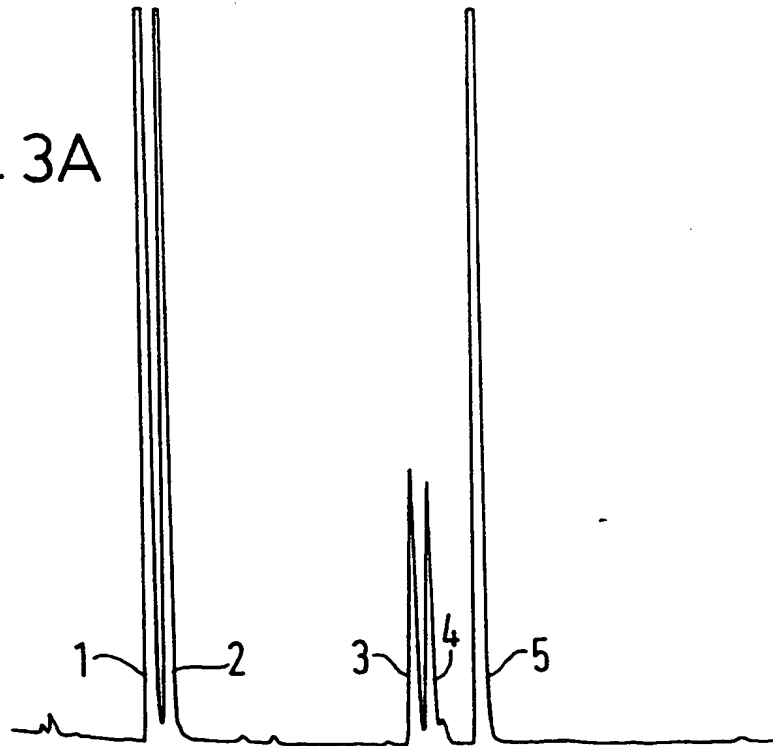
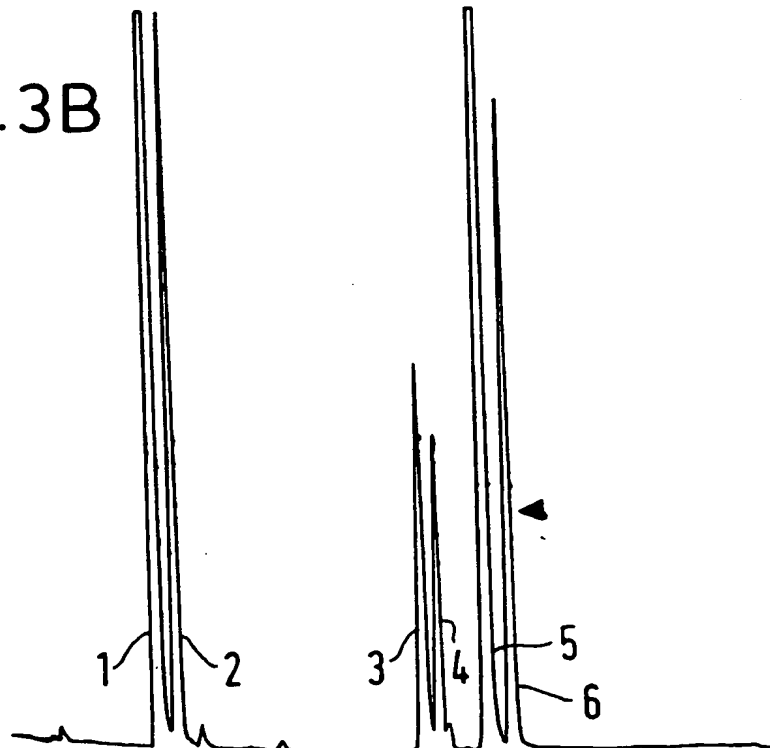


FIG. 3B



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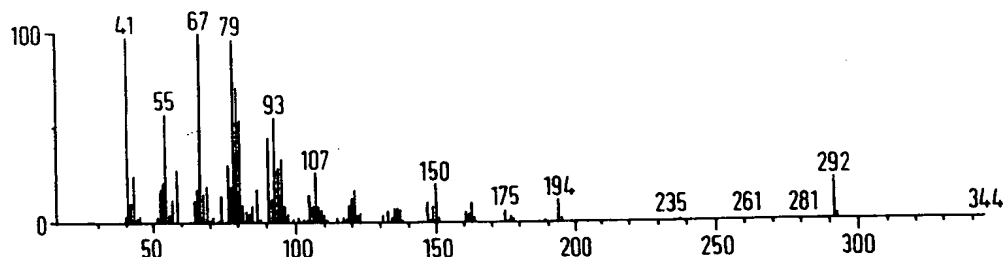
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## RESULTS OF PBM SEARCH USING THE wileynbs LIBRARY

Run =DOM10004 Scan=738 (Sub) 100%=413600 ADC Mass Range=40-456  
 23 Sep 97 3:50 Compacted SLRP +EI 1UL C.E O/N INDUCTION + LA

Serial	Rel. (Sim)	Rel. (Same)	Mol. Wt.	Formula & Name
77275	99	81	292	C19 H32 O2 6, 9, 12-Octadecatrienoic acid, methyl ester
81040	95	74	122	C9 H14 1, 4-Cyclononadiene
43157	95	74	292	C19 H32 O2 6, 9, 12-Octadecatrienoic acid, methyl ester
77274	93	68	292	C19 H32 O2 6, 9, 12-Octadecatrienoic acid, methyl ester
6892	60	35	136	C10 H16 .BETA.-FENCHENE
4278	59	33	122	C9 H14 3-Nonen-1-yne, (z)-
25116	55	29	206	C15 H26 5-Pentadecen-7-yne, (z)-
17742	55	29	178	C13 H22 3-Tridecen-1-yne, (z)-
13423	55	29	162	C12 H18 1, 4, 8-Dodecatriene, (E, E, E)-
10169	34	11	150	C11 H18 Cyclopropane, 1-ethenyl-2-hexenyl-, 1.alpha., 2.beta. (E)
2366	33	10	108	C8 H12 1, 4-Cyclooctadiene, (z, z)-
2372	32	9	108	C8 H12 Bicyclo 5.1.0. oct-3-ene
6909	24	6	136	C10 H16 Cyclooctene, 3-ethenyl-
10171	23	6	150	C11 H18 Cyclohexene, 3-(3-methyl-1-butenyl)-, (E)-
29046	23	6	222	C15 H26 O 5, 10-Pentadecadienal, (z, z)-
17743	21	5	178	C13 H22 3-Tridecen-1-yne, (E)-
10173	20	4	150	C11 H18 Spiro 5.5.undec-1-ene
4281	20	4	122	C9 H14 Bicyclo 5.1.0. octane, 8-methylene-
10192	18	3	150	C11 H18 (-)-2-METHYL-2-BORNENE
4291	18	3	122	C9 H14 1, 2-CYCLONONADIENE
2597	18	3	110	C8 H14 Cyclopentane, (1-methylethylidene)-
7335	12	2	138	C10 H18 4-Decyne
67891	11	2	82	C6 H10 Cyclopropane, 1, 2-dimethyl-3-methylene-, cis-
618	11	2	82	C6 H10 Cyclopropane, 1, 2-dimethyl-3-methylene-, trans-
71289	4	1	136	C10 H16 2-.BETA.-PINENE

Run =DOM10004 Scan=738 (Sub) 100%=413600 ADC Mass Range=40-456  
 23 Sep 97 3:50 Compacted SLRP +EI 1UL C.E O/N INDUCTION + LA



wileynbs: 77275 Rel(sim):99 Rel(same):81  
 6,9,12-Octadecatrienoic acid, methyl ester  
 C19 H32 O2 MW=292.240230 CAS=2676417

Me (CH<sub>2</sub>)<sub>4</sub> CH CH CH<sub>2</sub> CH CH CH<sub>2</sub> CH CH (CH<sub>2</sub>)<sub>4</sub> C(O) OMe



FIG. 4

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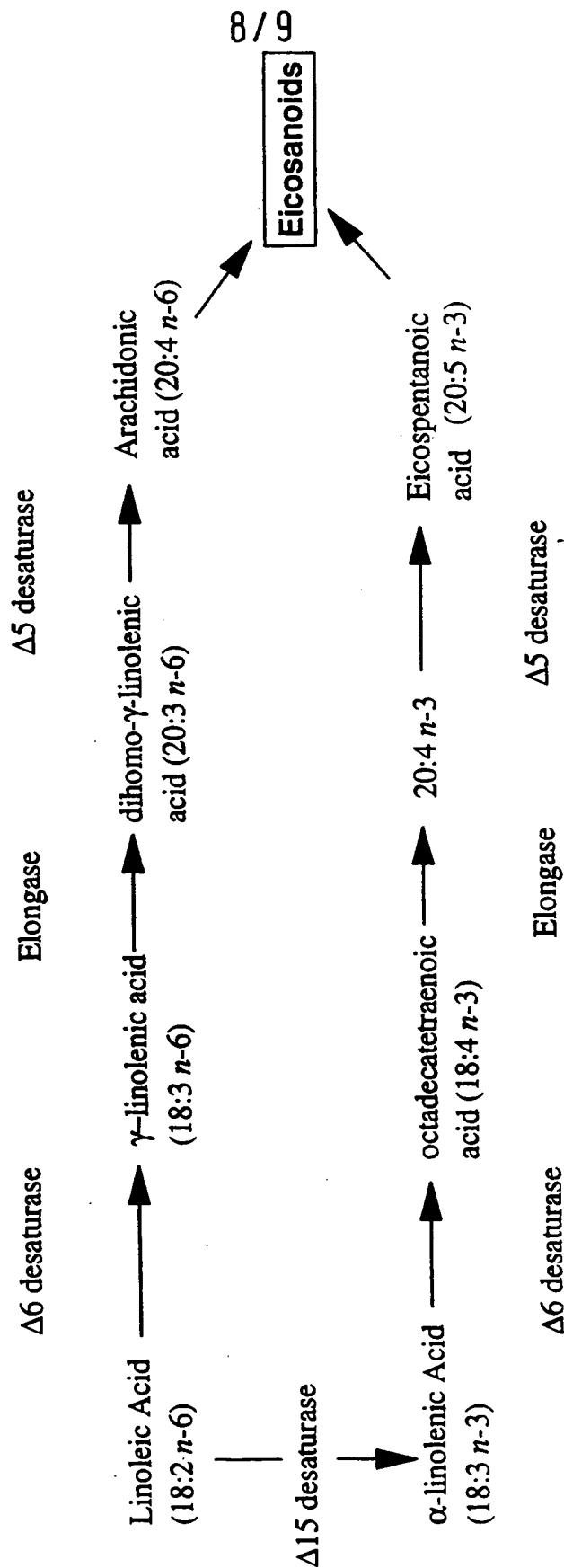


FIG. 5



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FIG. 6A

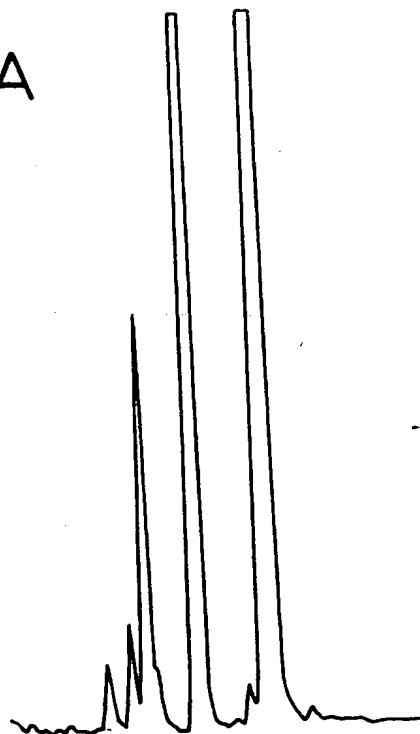
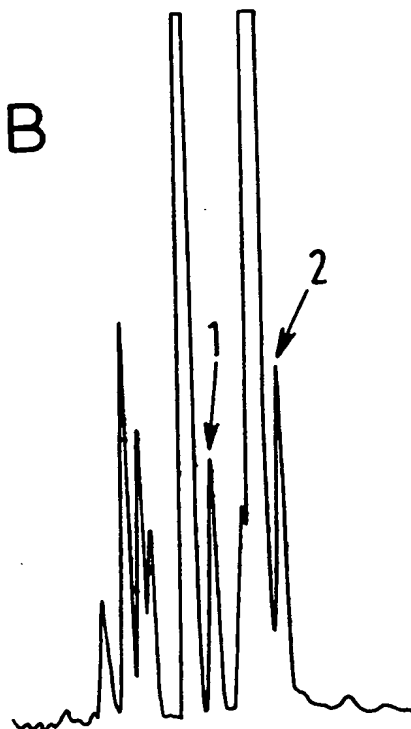


FIG. 6B



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